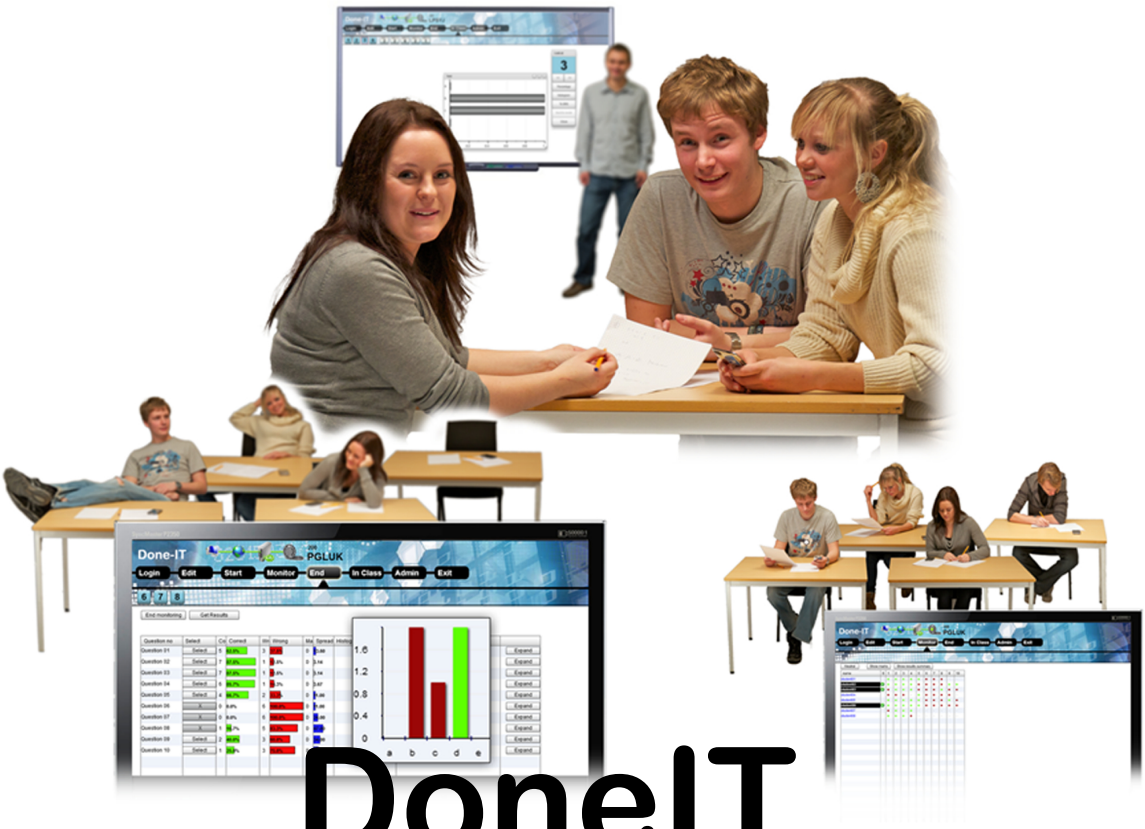

DoneIT

The first user manual for prototype

Version 1.1.688

Education and Culture DG
Lifelong Learning Programme
Contract 511485-LLP-1-2010-NO-KA3-KA3MP

HiST TRONDHEIM

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Disclaimer

Version 1.1.688 is a prototype!! We know that there still are errors to fix, but the application should run and be able to use for simple assessments, with an SRS activity after the assessment. Any bugs can be reported to Trond.M.Thorseth@hist.no and please give the version number. As bugs are fixed, new versions will arrive and this is the number used to keep track of bugs and bug fixes.

Warning! Where we see changes coming or problems that might appear, this is notified this way. You see these bars with a message between. This manual describes a prototype in constant change!!!

Installation

DoneITC is Air application that requires Adobe Air installed on your computer. You get adobe air from Adobe for free. You can get it from

http://get.adobe.com/air/

When Air is installed, the .air application can be installed by simply double clicking on the .air file. If you have a previous version installed, you have to remove the old version of DoneITC before installing a new one.

Once installed you will get the DoneITC icon on your desktop.

Introduction

The DoneIT assessment system is a general assessment system made for connecting **assessments** but with an approach where we try to target **learning**. The focus is to provide the teacher with enough information from the assessment part, to be able to perform an activity immediately afterwards, that targets problems identified from the assessment. Can the **immediate feedback** provided and the way a teacher decides to work with the results, provide an arena for learning using the results from the assessment?

The application mainly does the following:

- Login to the assessment server, and provides an interface where the teacher can get an overview of assessments and to some extent, administrate assessments.
- An interface providing tools to create assessments that is interpreted by the server such that the students can respond to the assessment. The assessment setup can be saved or loaded from file locally.
- An interface for close to live monitoring of an active assessment and consideration of the results while the students are responding.
- Provides an interface for considering the results and select what questions to work with in the Post Assessment Activity.
- An interface for performing a post assessment activity, displaying partly or completely results or sending the question back for a new second chance response.
- An admin interface where the results are summarized and can be exported to Excel.

User accounts.

You can at the moment use the general username **teacher** with the password **teacher**. You can create your own username, We recommend that you do so!! Using a web browser like **Google Chrome** and go to the following address: You will be required to give a username and password (teacher, teacher)

http://aft-test.hist.no/srs-assessment/admin/accounts/

Here you can create your own username and give it the role as a teacher. If you want to generate student accounts, this is temporarily done here or you can allow students to create their individual users, at

http://aft-test.hist.no/srs-assessment/userregistration

This link is not password protected, but can only be used to generate student users.

Login

The first thing you have to do is to login to a server. At the moment we only have one server online that you can log on to, aft-test.hist.no, that is the only option you have in the login interface.

If you have a username and password use that, otherwise use username ;"teacher" and password; "teacher". If you have a localhost installation, check the localhost and log on. When the server address points to a real server, that is online, you get a green symbol indicating that the server is alive and responding. Click connect and you enter the application and get an overview of all you assessment sessions on the server.

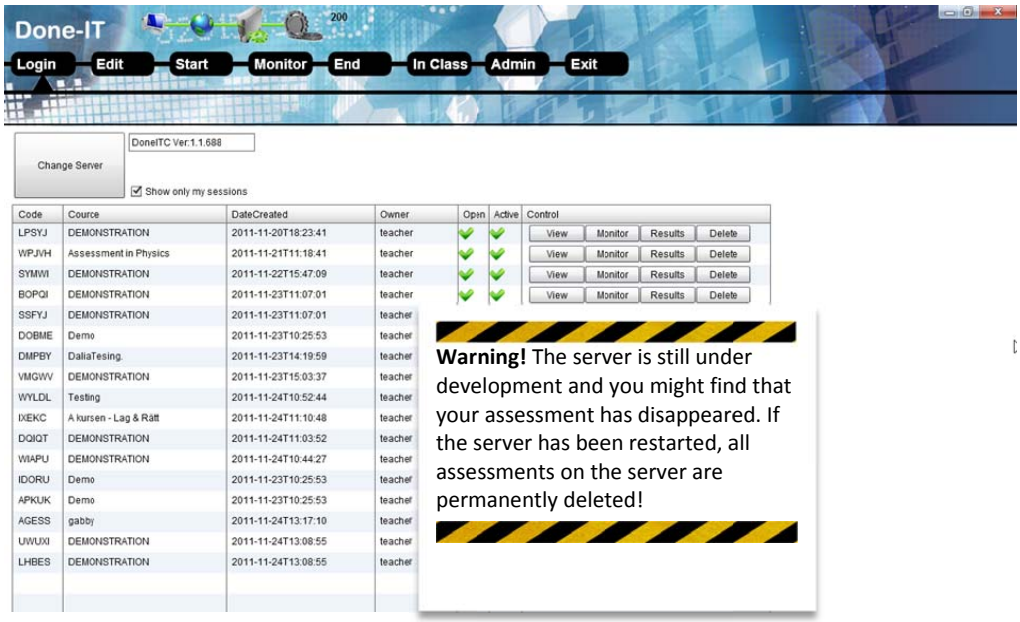


Figure 2 The initial interface where you get all your sessions listed. Here you can login and get the results, monitor a session, or switch session.

Here you can now go and monitor an existing assessment, or go and look at the results of the assessment. In the future you will be able to open and close the assessment, activate or deactivate the assessment. Now you will get only a message that this feature is not implemented. The delete assessment is not activated at the moment.

The menu system.

The main menu is a simple set of steps that follows a normal procedure. After **Login**, you normally have to **Edit** or create an assessment. Here you can also load or save the assessment if needed. Then when the assessment is ready, you **Start** the

process, by uploading the assessment setup to the server. When the assessment is uploaded, the program immediately starts **Monitor**ing the assessment.

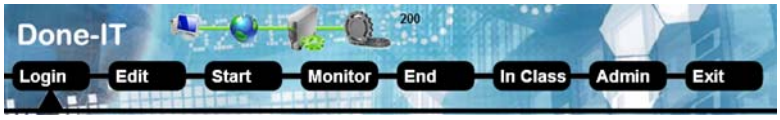


Figure 3 The menu system in DoneITC, with the network stat.

When students have submitted their results, you can End the assessment, start considering the results and select questions that you want to take back to the class. Then In Class, you get a transparent application where you can pick results, or send the question back to the students.

Network status.

Figure 4 Network status indicator.

In the upper area of the main application is a visual feedback is given on the network status. If you are not online, you get a red cross over the internet symbol, indicating a lost connection.

The table below explains the symbols in the network status interface and what they represent.

Symbol		Symbol	Error message
	Computer online		You are not online
	Server online and responding		The server is not responding. Server not online or wrong address.
	Service responding correctly		The service is not responding correctly
	This number is the HTTP status number from the last interaction with the server. Should be a 200 but not lager than 299.		

Table 1 The symbols used in the network monitoring interface.

Creating an assessment

When you want to create a new assessment, go to **Edit** and chose **Create**.

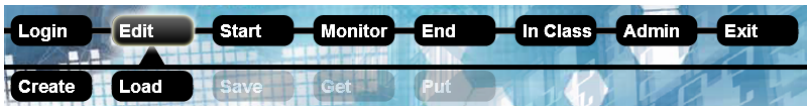


Figure 5 The menu system and where you start creating a new assessment.

This will bring up a create assessment wizard in four steps.

Step one, metadata

The first step provides an interface where you as a teacher can fill inn metadata about the assessment.

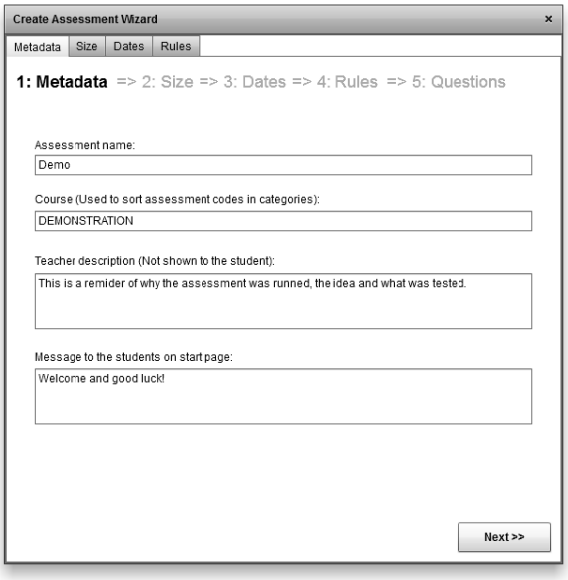

Create Assessment Wizard
Metadata
Size
Dates
Rules
1: Metadata => 2: Size => 3: Dates => 4: Rules => 5: Questions
Assessment name:
Demo
Course (Used to sort assessment codes in categories):
DEMONSTRATION
Teacher description (Not shown to the student):
This is a remider of why the assessment was runned, the idea and what was tested.
Message to the students on start page:
Welcome and good luck!
Next >>

Figure 6 The metadata step in the wizard

Here you can fill in the assessment name, a course name, a short description about the assessment. This provides only as a reminder for the teacher why this was done. Then you can fill inn a message to the students, a message that will appear on the student interface when they login to the assessment.

The second step of the assessment is an interface for creating the main assessment form.

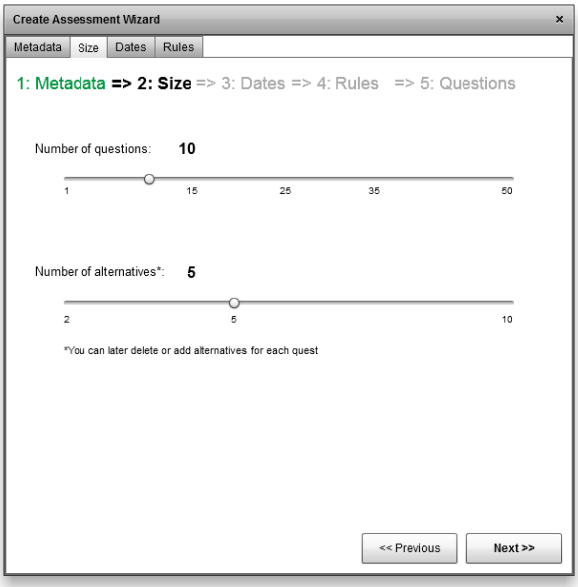


Figure 7 Step two with the number of questions and the number of alternatives on each question.

Notice! The number of questions is set for the assessment here. You can't in the current version add questions later. This is a missing feature that we are planning to add later.

The number of questions has at the current version been limited to 50 and the number of alternatives has been limited to 10. You can add or delete alternatives later when you

After that, in step the next interface is the interface where you can set the time and date of the assessment. This feature is not used now.

Notice! Timing of when the assessment starts, and for how long the assessment should last is not used in current version. The plan is to be able to set a time window for self assessments or similar tasks.

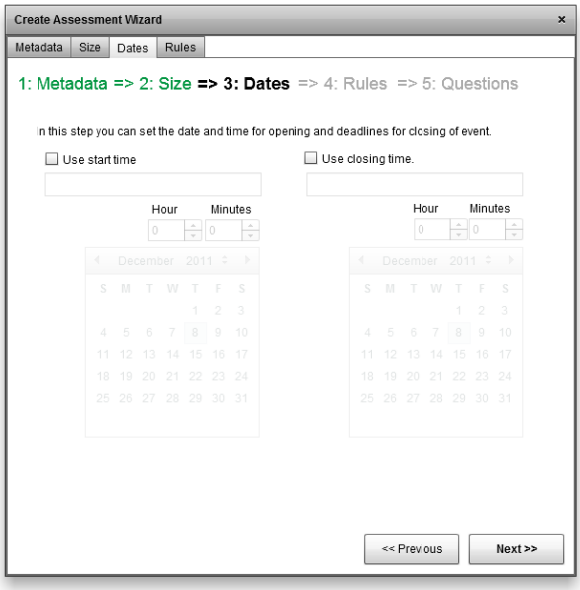


Figure 8 Setting date and time of the assessment

The last step considers the general rules of the assessment. This is where you set the score given for selecting a correct or wrong alternative. You can also set the score given for not responding to a question.

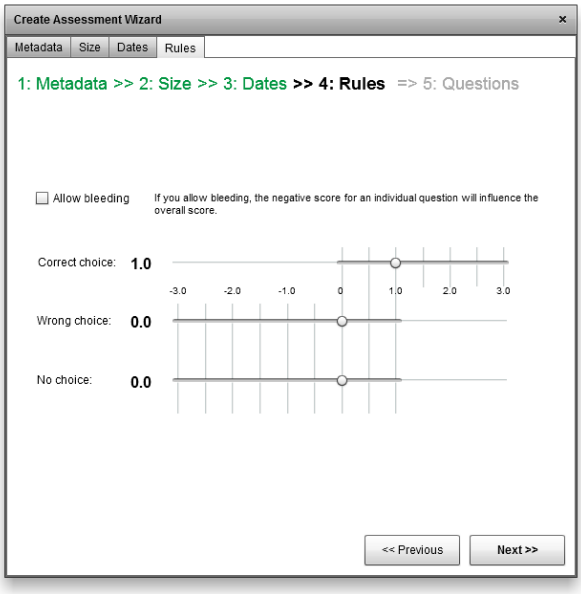

Create Assessment Wizard
Metadata
Size
Dates
Rules
1: Metadata >> 2: Size >> 3: Dates >> 4: Rules => 5: Questions
Allow bleeding
If you allow bleeding, the negative score for an individual question will influence the overall score.
Correct choice: 1.0
-3.0 -2.0 -1.0 0 1.0 2.0 3.0
Wrong choice: 0.0
No choice: 0.0
<< Previous
Next >>

Figure 9 The fourth step of the wizard where you set the rules.

The default score for correct choice is 1 but you can change this from 0 to 3. You can give the score for a wrong answer from -3 to 1. No choice gives the score if the student is not responding. If you **Allow bleeding** , a negative score from one question can be transferred to the total. If you do not allow bleeding, the minimal score can always be zero. This is an option that really matters if you have more than one correct alternative. Two alternatives wrong might give a negative score if you allow bleeding.

Edit assessment setup file

When you have finished the first four steps of the assessment setup wizard, you get the assessment setup document displayed. This contains a list of questions where you have to add information about what alternative is correct or not.

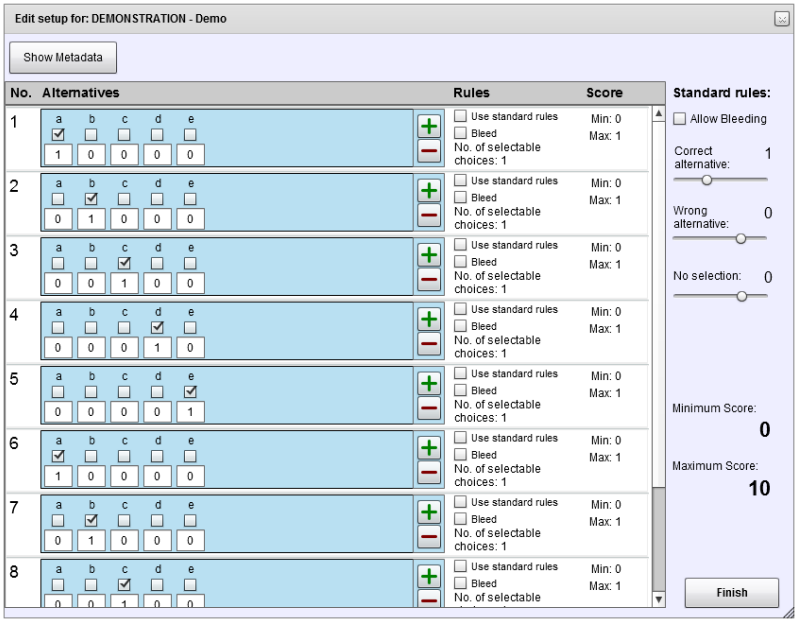


Figure 10 The interface where you can edit and set the details in the assessment setup.

When the assessment setup document is in memory, you can see this with the document setup in the upper right corner. By clicking on the icon, you can edit the document again

Figure 11 The document in memory icon showing that the assessment document is created and excist.

This interface has a button where you can switch between the questions and the metadata view.

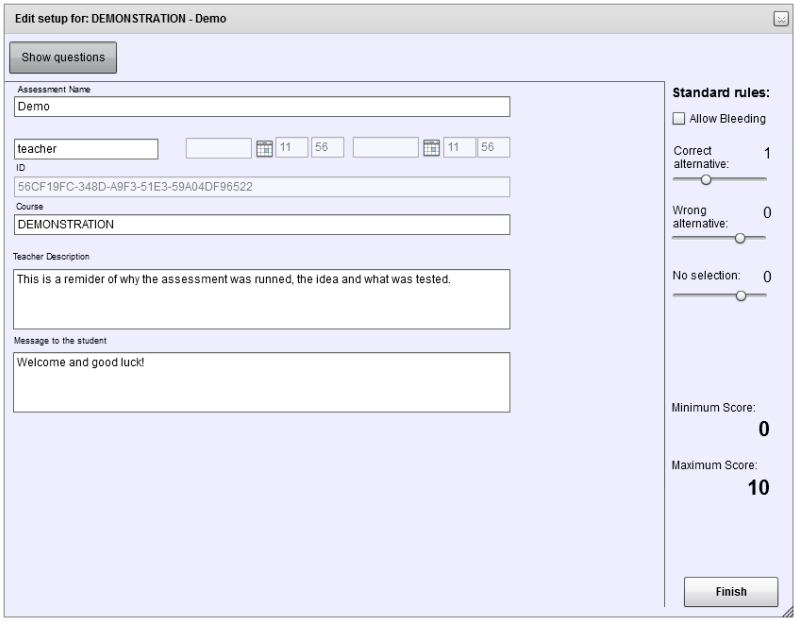


Figure 13 The metadata displayed in the assessment setup document.

Now its time to adjust each question and set the correct alternatives

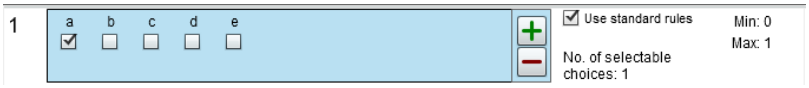


Figure 14 Question one where alternative a has been selected as correct.

You simply click on the alternative. In **Figure 14** a) has been selected as correct. Since "Use standard Rules" has been set, this gives the standard rules to this question. The standard rules you can adjust in the right hand part of the interface. If you need to add or remove one alternative, press + to add an alternative and − to remove an alternative. The max and minimum score of that question will change as you select correct alternatives.

You can however override the standard rules and remove the "use standard rules". This allows you the see the score and set other values for the score.

Figure 15 Question setup with "use standard rules" unselected.

You can manually enter a number and if you allow the question to bleed the score can range from a negative score to a positive score, as shown in **Figure 16**

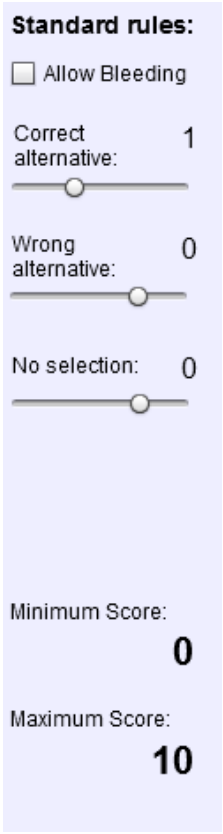


Figure 12 Standard rules settings. Here the general rules can be set for all questions, bleeding, correct wrong and no selection score and a maximum and minimum calculated score.

Figure 16 The same questions setup with different scores set for the alternatives.

Simulation (The monkey cage)

When the assessment is setup and you have the rules ready, you will in future versions be able to simulate the assessment. Assume that you give the assessment to a bunch of monkeys and N monkeys press at random, what score will they get? The simulation tool will provide some insight into how easy it is to get a score, and also possible outcomes of you setup. This feature we are testing and tries to make results available for the user to interpret. However its disabled from this version.

Save and load

Once you have created an assessment setup, you can save this to a file. A saved file you can load again.

Figure 17 The create, load and save menu under Edit.

When you load a file. You are asked if you want to display the assessment setup document or not. If you respond with yes, the document is displayed and you can continue edition the assessment. If you respond no, the application jumps directly to start, where you can start the assessment.

Lets start

When the assessment is set up and ready, go to Start and you get a big green button. When you press the green button, the assessment is uploaded to the server.

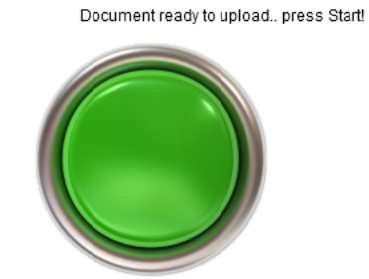


Figure 18 The big green start button.

The application now immediately starts monitoring the assessment. Notice how you assessment now got an assessment code.

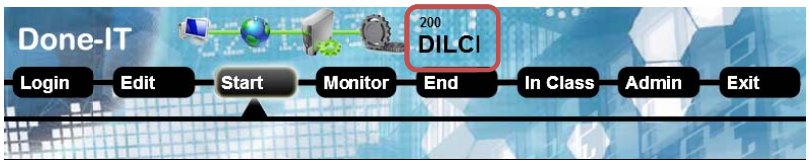


Figure 19 The application now displaying the assessment code encircled in this image.

The students now can log into the session at the following address:

http://aft-test.hist.no/srs-assessment/plugins/app/

The students respond with a web browser using a cellphone (iPhone, iPod, iPad) works at the moment, or with a Webkit browser, like Google Chrome or Sarafi.

Notice! At the moment the student interface has problems with Android phones. We are working on the problem!!!

Student interface on login

When the students follow the link to the web interface they get a login window.

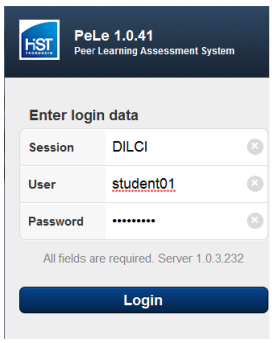


Figure 20 The student interface on login.

When they have logged in, a welcome page will appear. Here you will find you metadata such as the course name and the message that you inserted in the metadata of the assessment.

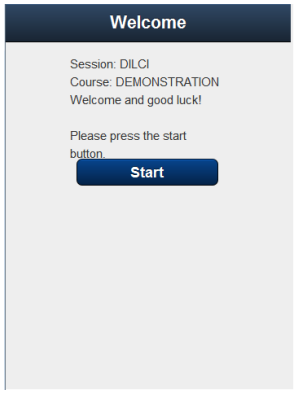


Figure 21 Start page of the student interface.

Now the students just press Start and can start responding. The students then will get an interface with a quick navigation bar at the top showing the question number and an area with all the alternatives.

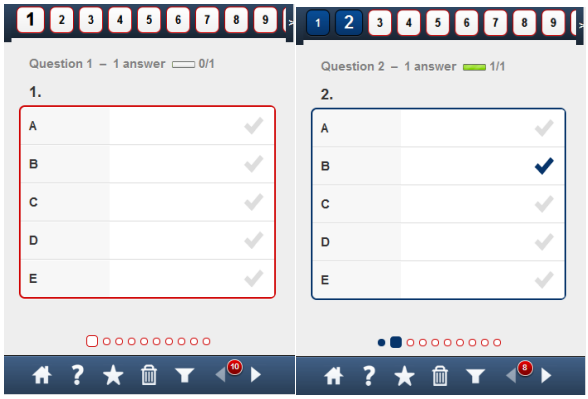


Figure 22 The students interface where they fill in the responses. On the left side you see the page before filling inn an alternative. To the right, you see how the page confirms the selection.

By pressing on the white area of the alternatives, they select an alternative. When an alternative is selected, the number in the navigation menu is filled. Now the student can move to the next question by pressing the next question on the menu or simply drag and slide the page to the left. A question where response has been given is changing color of the frame from red to blue.

At the bottom of the page is a set of buttons the students can use. The function of each symbol is given in the table below.

Symbol	Meaning of the symbol.
	Go to “home” page
	Help
	Mark this question
	Delete the responses to this question

	Filter out the questions I have answered and leave only the unanswered ones.
	Move to next, previous question with a flag showing the number of questions still left unanswered.

When the students mark a question, the border around the alternatives turns yellow, and the question is tagged in the top navigation menu. The teacher can now see that this question has been marked.

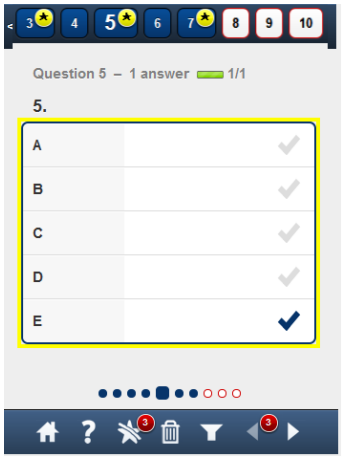


Figure 23 An example of a student page where question 3, 5 and 7 has been marked by the student.

Monitoring an assessment

Monitoring of the activity is done for two reasons. Monitoring of the activity can be done with two main views, either as a student oriented list or as a question oriented list. The default view is the student oriented list where the teacher can see the students appear on the list as they log in, see responses appearing and get a picture of students as they submit their assessment.

You can see that monitoring is active by looking into the network status area and look for a green led blinking on the service status, as shown in Figure 24.

Figure 24 When the monitoring is active, you will get a blinking green led displayed on the service icon. Each time this shows a green dot, an update of current status is requested.

The tree buttons on top control the view of the application. Show switch between neutral display of responses and details about correct or wrong. **Show marks** display what questions has been marked, and the show results summary displays the question oriented list.

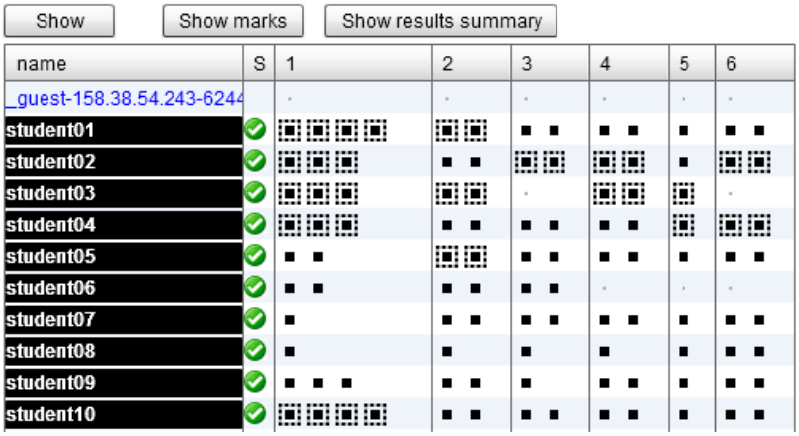


Figure 25 The student oriented list where every student has submitted their response except the guest user at the beginning of the list.

Students that have submitted their response appear with an inverted name, black background with white characters. Students still working appear with blue characters on white background. The symbols used in the monitoring interface and the meaning of each symbol is given in Table 2 below.

Notice! Students has given us feedback on this monitoring interface, where they ask a relevant question; ***Why should the teacher see who marked the question?*** This we might remove such that marking of questions only appear in the question oriented list in future versions.

Symbol	Meaning
	No response given to question (Both neutral and detail mode)
■	Response given (Neutral mode)
▣	Response given, question marked by student (Neutral mode)
■	Correct response given
■	Wrong response given
▣	Correct response given, question marked by student

Table 2 Symbols used in the student oriented monitor view.

The question oriented view displays the questions and how the students are performing on each question. You switch to the question oriented list using the **Show Results Summary** button.

Notice! The question oriented list interface we are planning to change. The plan is to have a tree state bar, showing percentage correct, percentage wrong and percentage unanswered in one bar. The marks will appear in a separate bar.

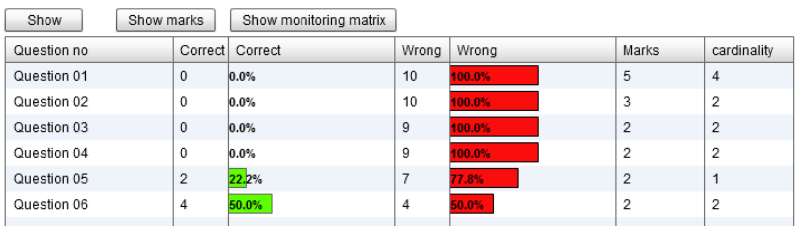


Figure 26 The question oriented list, with number of correct responses, percentage graph, number of wrong responses, percentage wrong bar, number of marks, and the cardinality of the question.

You can switch back to the student oriented list by pressing the **Show monitoring matrix** button.

When you want to end monitoring of an assessment, you have to go to the step in the main menu,End and press the End Monitoring. This will bring up a small dialog telling you that monitoring of the assessment has ended. You can start the monitoring again by going to Login, find the assessment and press the monitoring button. This will restart monitoring of the assessment.

Analyzing the results

When your students have responded and submitted, you can end the monitoring by moving to **End**.

The first button stops the monitoring. When you press this, monitoring is shut off. If you press Get Results, the latest results are obtained from the server. Now it's time to do a quick analysis of the responses.

Figure 27 The End interface with the results.

In the end interface you can get an overview of the results for each question. You get a bar showing the percentage correct answers, percentage wrong answers, the number of marks, and a **spread factor**.

The spread factor is an index ranging from 0% to 100%. This is a factor that give you a measure of how the spread of the responses are. If all have given one alternative, you get 0% if the responses are equally distributed over all alternatives you get a complete spread of 100%.

You can press the expand button to see more details of what responses has actually been given. Here you will get a histogram showing the distribution of alternatives chosen, and the table showing counts of each alternative. The correct alternatives are marked in both the table and the histogram. You can press the Contract button to remove the additional data.

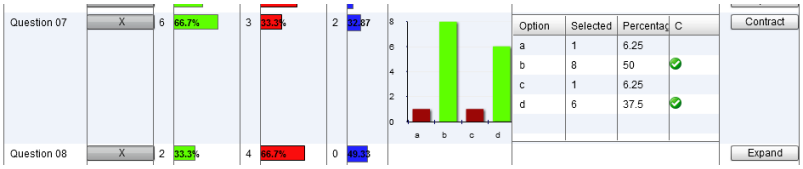


Figure 28 The table row when the expand button has been pressed.

When you find questions shows somehow that the students have problems with the question, you can select it. You select by pressing the **Select** button. This pulls the question up to the bin of selected questions. These questions you can select to bring into class. Here you can select one question or all if you want to.

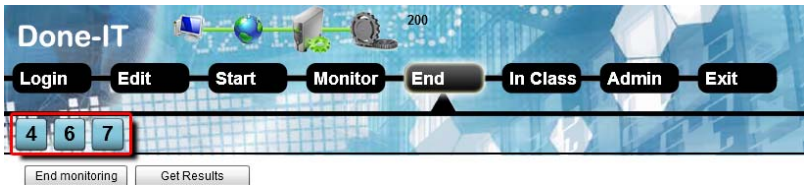


Figure 29 The bin of selected questions appearing when you select the question.

When you have selected those questions that you can possible to something with and can predict some activity in class with the questions, you are ready to go into the class with the results and start the fun part. Now let the students learn from the assessment and start working **In Class**.

Working In Class

When you move to In Class the application turns transparent. This is done so you as a teacher can present the questions as you work with the questions.

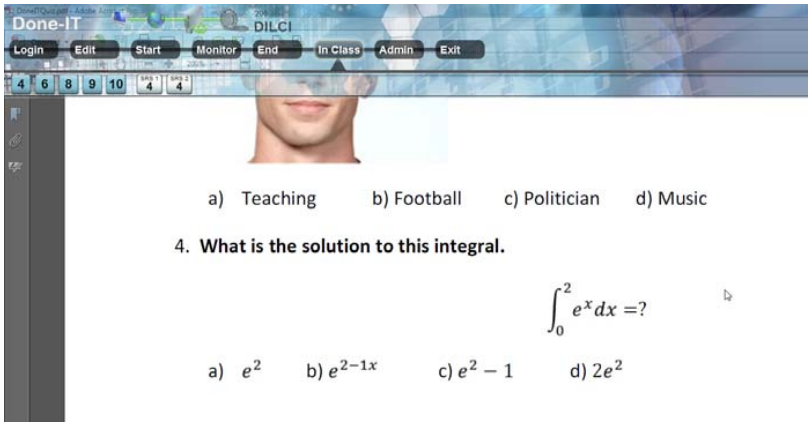


Figure 30 The DoneITC application on top of a simple assessment.

Now you can focus on the questions, and help the students to understand the problem.

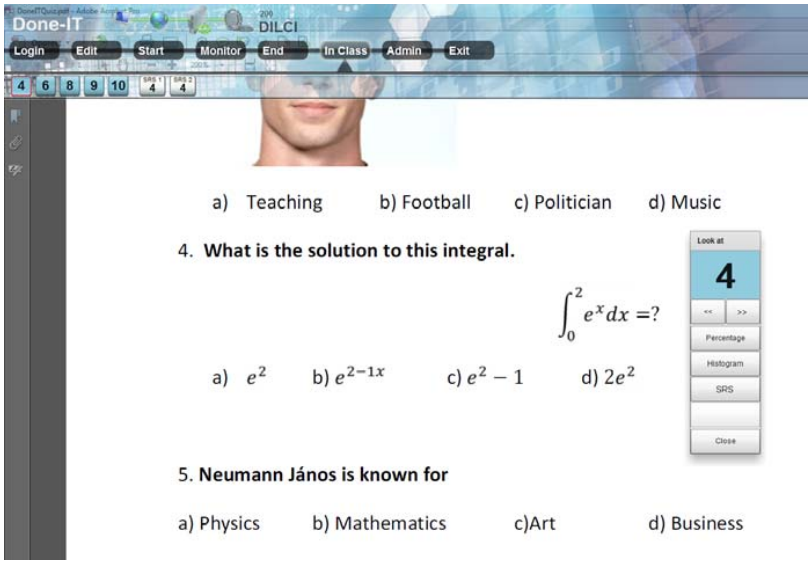


Figure 32 The In Class mode with question 4 selected and the activity menu selected.

Now if you press on selected question number four, you get a quick menu up where you can chose the following:

- Present the percentage correct / wrong answers.
- Present the histogram of what they voted.
- Send the question out to the devices so that they can vote again.

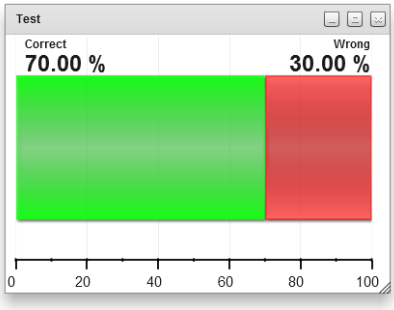


Figure 31 A typical percentage correct wrong visualization.

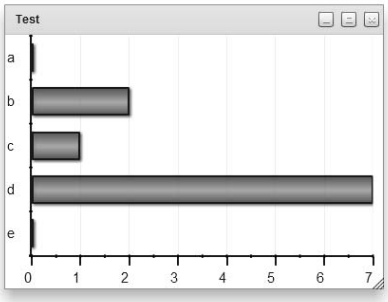


Figure 33 The interactive histogram showing what the students have responded to the question.

The histogram displayed is interactive. That means that you can select an alternative and it will shift to green color, so you as a teacher can highlight one response. If no one has selected that alternative you can still do this.

If you want to remove the green color, click again and it will be removed.

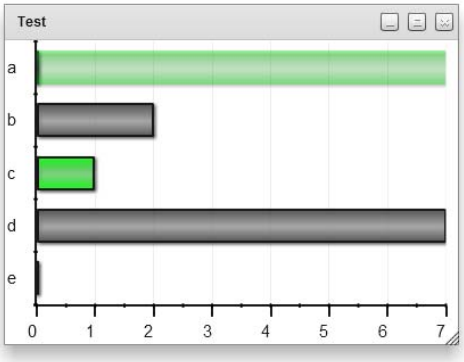


Figure 34 Histogram with one alternative highlighted.

If you click on the SRS button , you will send the students out to the second chase loop. The alternatives on that selected question will appear on the voting device and the students can submit again. As a teacher you will now get a new dialog showing the question number, number of responses as they appear and the time spent. When you feel that enough time has been given you can stop, and the student interface will present a please wait interface.

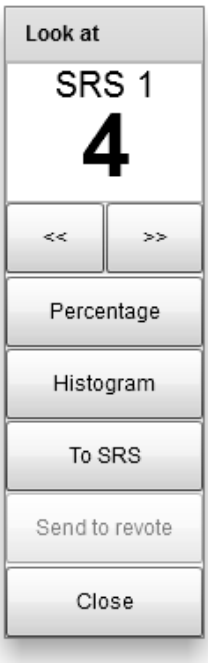


Figure 35 The activity menu focusing on question four but no looking at the second chance (SRS) data.

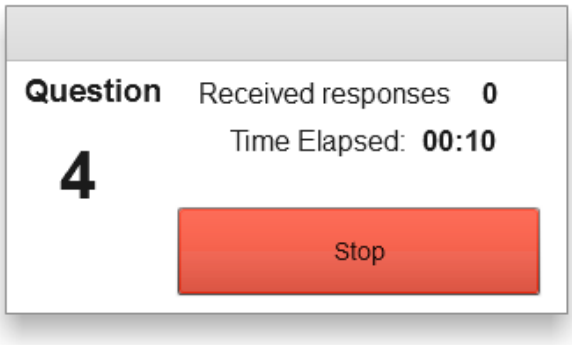


Figure 36 She control interface for the second chance appearing when the students can deliver a new response.

Now when the Second chance is stopped the data appear together with the selected alternatives.

Figure 37 The selected questions with two runs of question 4 using a second chance loop.

The SRS buttons ( ) behave like the selected question buttons. When you press the button you get the activity menu up again and can show results or enter a new second chance loop.

Results

In the Admin interface you can now look at the results. Here you get a list of all students and what they have responded and the final score according to the rules that you have set. If no data appear in the Admin interface, go to End and press **Get Results** button. You will get a message that the latest data has been loaded.

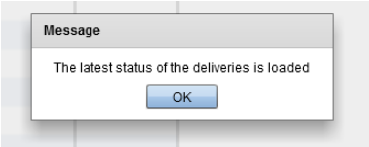
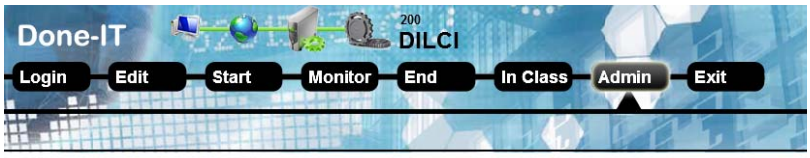


Figure 38 DoneITC confirming that the latest data has been loaded.

Notice! In future versions this loading of all the results for that assessment should happen automatically when you enter **Admin**. However we need to be able to handle several assessments simultaneously and hence this interface will look different in future versions.



Export To XLS

student01	a	c	c	b	b	a	b,d	c,e	a,c	b	Total: **10**
student01	1	0	1	0	0	1	2	2	2	1	
student02	b	c	c	d	e	a,d	b,d	a,c	a,c,e	b	Total: **11**
student02	0	0	1	1	1	1	2	1	3	1	
student03	a	b	c	d	e	c	b,d	a,c	b,d,e	a	Total: **10**
student03	1	1	1	1	1	1	2	1	1	0	
student04	a	b	e	b	c						Total: **2**
student04	1	1	0	0	0	0	0	0	0	0	
student05	a	b	c	c	e	a	b				Total: **6**
student05	1	1	1	0	1	1	1	0	0	0	
student06	a	b	b	d	e	a,d	a,c				Total: **5**
student06	1	1	0	1	1	1	0	0	0	0	
student07	a	b	c	d	e	a,c	b,d	a,d	a,c,e	a	Total: **12**
student07	1	1	1	1	1	2	2	0	3	0	
student08	a	b	c	d	e	a,c	b,d	c,e	b,c,e	a	Total: **13**
student08	1	1	1	1	1	2	2	2	2	0	
student09	a	b	c	d	e	a,c	b,d				Total: **9**
student09	1	1	1	1	1	2	2	0	0	0	
student10	a	b	c	d	e	a,c	b	b	a,c,e	b	Total: **12**
student10	1	1	1	1	1	2	1	0	3	1	
teacher											Total: **0**
teacher	0	0	0	0	0	0	0	0	0	0	

Figure 39 The final list with results for the students.

Notice! This part of the software is at the moment the weakest and least developed part. You get only the assessment results for the assessment that is active and selected. In the future you will be able to look at both assessment results, different sections if you are using more than one default section and SRS data.

This data will also be able to export into the Excel spreadsheet.

Results from the SRS part, is not exported in this version.

If you press the Export to XLS button, you will now be able to export the results as they appear in the list shown above in Figure 39. This gives you a student oriented list with what they voted, what score they got and the calculated total score.